

Brookhaven National Laboratory National Synchrotron Light Source		Number: LS-PPS-0031	Revision: A
		Effective: 3/17/03	Page 1 of 1
Subject: NSLS Modulator High Voltage Power Supply Interlock Test Procedure			
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*Approval signatures on file with master copy.

[Revision/Periodic Review Log](#)

Test Reason:	Test Result:	<input type="checkbox"/> Passed	<input type="checkbox"/> Failed
	Test Type:	<input type="checkbox"/> Full	<input type="checkbox"/> Partial
Test Date:	Tester:	Assistant:	

Scope: This test procedure provides the necessary steps needed to check the Modulator High Voltage Power Supply interface with the Booster Security System and verifies that it functions properly with the security system.

When test is required: This test shall be performed before modulator operation when a power supply is changed, modified, disconnected or repaired.

Authorized tester: Personnel authorized to search and interlock the Booster area shall only perform this test. Tester shall notify the NSLS Interlock Group and NSLS Safety Officer upon test failure.

Request permission from the Control Room Operator to conduct the test.

Sign out the "SR-8 Linac/Booster Security Rack" key for use in step #4 below.

Turn off the booster magnet power supplies to avoid unnecessary tripping during ramping.

1. Search the Booster area following the standard search and interlock procedure.

2. After the warning sound is complete request the operator to turn the modulators ON and pulsing.

All three modulators are ON and pulsing

The "A " interlock indicators are on at all three modulators

The "B " interlock indicators are on at all three modulators

3. Request the operator press the Linac-Booster Disable button in the control room

The "B" interlock indicators at all three modulators go out

The "A " interlock indicators at all three modulators stay ON.

All three modulator high voltage power supplies go OFF

4. Request the operator to enable and turn on the modulators and have them pulsing.

All three modulators are ON and pulsing

Press the "RIA TEST SWITCH" located inside the interlock rack.

The "A " interlock indicators at all three modulators go OUT

The "B " interlock indicators at all three modulators stay ON

All three modulator high voltage power supplies go OFF

5. Press the Interlock OFF button.

6. When all of the steps have been completed successfully Secure the Linac/Booster for normal operation.

7. Lock the SR-8 Security Rack, and return and sign in the "SR-8 Linac/Booster Security Rack" key.

8. Upon completion of the test forward the completed form to the NSLS Quality Representative.